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**MDH 452**

II Semester M.P.Ed. Degree Examination, September 2022
(New Syllabus – Semester Scheme)
PHYSICAL EDUCATION
Applied Statistics in Physical Education and Sports

Time : 3 Hours

Max. Marks : 70

Instructions : 1) Answer **all** the questions.
 2) **Each** answer shall **not** exceed **6** pages.

1. a) Define statistics. Explain the need and importance of statistics in physical education and sports.

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OR

- b) Construct a frequency distribution table for the following scores and compute the central tendencies.

48	73	57	57	69	88	11	80	82	47
46	70	49	45	75	81	33	65	38	59
94	59	62	36	58	69	45	55	58	65
30	49	73	29	41	53	37	35	61	48
22	51	56	55	60	37	56	59	57	36
12	36	50	63	68	30	56	70	53	28

2. a) What is dispersion ? Calculate Standard deviation and Mean deviation of the following data.

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CI	f
20 – 24	1
25 – 29	3
30 – 34	5
35 – 39	8
40 – 44	5
45 – 49	2
50 – 54	0
55 – 59	1
60 – 64	4

OR

- b) Define sigma scale. Explain the purpose, calculation and advantages of scoring sigma scale.

P.T.O.



3. a) Define probability. Write the principles of normal curve.

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OR

- b) List out the various types of graph. Draw a histogram and frequency polygon of the following data.

CI	frequency
30 – 39	6
40 – 49	8
50 – 59	12
60 – 69	14
70 – 79	7
80 – 89	5
90 – 99	3

4. a) Explain the following.

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- i) ANOVA ii) ANCOVA iii) SPSS system

OR

- b) What is correlation ? Find out Co-efficient of correlation of the following data.

x	55	73	64	76	82	73	56	68	63	59
y	60	82	65	79	78	72	63	54	65	62

5. Write short notes on **any two** of the following.

(2×5=10)

- Population and Sample.
 - Percentile ranking.
 - Skewness and kurtosis.
 - Tests of significance.
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